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HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL MANAGEMENT

February 22, 1989

Mr. Russ Korvola
Port of Portland
Box 3529
Portland, Oregon 97208

SUBJECT: Summary of Oregon State Fire Marshal Hazardous Substance Employer
Survey

Dear Mr. Korvola:

On February 15, 16 and 17 Ms. Randi Wexler and Mr. Philip Ralston of Hahn and Associates, Inc. (HAI) toured seven facilities to gather the necessary information to complete the 1988 Oregon State Fire Marshal Hazardous Substance Employer Survey (survey) for seven Port of Portland (POP) facilities. These facilities included Terminal 1, Terminal 4 Maintenance building, Terminal 6, Ship Repair Yard, Property Maintenance Shop, Airport Maintenance facility and the Airport Fire Department. As we discussed, Terminal 4 Gear Locker has been merged with Terminal 6 and is no longer a POP operated facility.

In general, all contact people at the POP facilities had reviewed the 1987 survey and had prepared a list of recommended changes. Terminal 6 did not have an identified person responsible for reviewing the 1987 survey or assisting with the 1988 site inspection. Based on discussions with POP personnel at Terminal 6, Bruce Newgard, Maintenance Manager, is a likely POP person to serve as a contact person for hazardous waste issues in the future. Overall response to updating the survey was very positive.

Additional information was gathered to complete new sections of the survey including "amount used per year," "number of days on site" and "storage codes". Where applicable new products, Chemical Abstract System (CAS) numbers and United Nations (UN)/North America (NA) numbers were added.

CAS numbers are typically used for pure constituents (ie. xylene) and are not typically given to mixtures and trade formulations of products. Where possible the active ingredient of a product has been identified and the appropriate CAS number listed.

A conservative approach was taken in reporting the type and quantities of hazardous materials present. In some situations, a general class of product type was identified such as "insecticides" because reportable quantities were present in large numbers of small containers. Since a variety of active ingredients would be present, no CAS number was given.

Changes to the 1987 that are recorded in the 1988 survey are do in part to changes in the survey instrument and verification of information. The reporting ranges in table 1 of the 1988 survey have changed from the 1987 survey. In some situations, products use has changed.

A general summary of each site visit is described below:

434 NW 6TH AVENUE, SUITE 203 • PORTLAND, OREGON 97209-3600 • 503/796-0717



POPT1S700185

Terminal 1

The primary hazardous materials on site are gases under pressure including acetylene, argon/oxygen, carbon dioxide and oxygen. These gases are found throughout the facility, especially in the shop areas. Paints, solvents, and epoxy materials are found throughout the shop areas and in the new fenced structure at the west side of the yard. Gasoline, diesel fuel, oils and propane are found throughout the facility also.

Terminal 4 Maintenance

Terminal 4 Maintenance includes a central supply room, plumbing shop, laborers shop, paint shop, welding shop and carpentry shop. Small quantities of a variety of cleaners, paints, and other solvent based items are found throughout the building. Reportable quantities of solvents (toluene, alcohol, wash-solvent, Safety Kleen, mineral thinner and lacquer thinner), paints, oils and gases for welding are found throughout the shops.

Terminal 6

The primary hazardous materials found on site were gases under pressure (acetylene, carbon dioxide, nitrogen, oxygen and argon) in the gear locker and cylinder storage shed, gas and diesel in underground storage tanks and propane in an above ground storage tank. Oils, paints and solvents were located throughout the gear locker and electrical shop areas. Approximately 50 used tires were located in the gear locker vehicle maintenance area. Other hazardous materials included drums of rust preventative, waste oils and antifreeze and an above ground tank of kerosene.

Ship Repair Yard

There are a number of hazardous materials in the ship repair yard including pressurized liquid oxygen in an above ground tank near berth 304 and other gases under pressure (acetylene and oxygen) in cylinders throughout the facility. Chemax boiler treatment products are located throughout the Central Utility Building while paints and solvents are located primarily in Building 61. Reportable quantities of gasoline are located in underground storage tanks while oils are located in underground tanks, the oil treatment facility and barrels throughout the facility.

Property Maintenance Shop

The Property Maintenance Shop primarily stores small quantities of a variety of pesticides and herbicides. Few items are stored in quantities of 55 gallons or 500 pounds. Reportable quantities included Spike Trellan, lime, Devrinol 5G, Norosac 4G, Woodace and other fertilizers. Gasoline in 5 gallon cans and diesel fuel in an above ground tank (approximately 200 gallons) are also present in reportable quantities.

Airport Maintenance Facility

The primary hazardous materials on site are paints and solvents in the paint room at the northeast corner of the carpenter shop, the herbicides and pesticides in the landscaping bay, and the gasoline stored in the underground storage tanks in the berm on the east side of the property. Other hazardous materials include detergents, antifreeze and welding gases.

Airport Fire Department

The primary hazardous materials on site are gases under pressure (acetylene, nitrogen and oxygen) and chemical fire retardants. Both are found primarily in and near the apparatus area and the "new bay" at the north end of the facility. Two 3,000 gallon underground storage tanks (gas and diesel) outside the facility are undergoing leak testing and probably do not contain fuel. Other hazardous materials include detergents, propane and kerosene.

An updated and completed survey for each facility and a list of contact people are enclosed for your review. If you have any questions or comments, please contact the undersigned.

Sincerely

Randi Wexler

Randi Wexler
Scientist

OSFM SURVEY CONTACTS

| | | |
|------------|---------------|----------|
| Terminal 1 | Ken Underhill | Ext. 492 |
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| Terminal 4 Maintenance | Gary Balough | Ext. 311 |
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| Terminal 6 | (BRUCE NEWGARD Ext) | |
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|------------------|---------------|----------|
| Ship Repair Yard | Ralph Piccolo | Ext. 531 |
| | Nick Peters | Ext. 575 |

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| Property Maintenance Shop | Mike Clapp | Ext. 533 |
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| Airport Maintenance | Tony Gatto | Ext. 521 |
| | Don Erickson | Ext. 743 |

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| Airport Fire Department | Lt. Albert Matthews | Ext. 435 |
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